

Our Ref P1713-L1-ds2.23
Contact David Stirling

Construction Sciences Pty Ltd
ABN 74 128 806 735

5 October 2023

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CCA Winslow

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Dear Daniel,

www.constructionsciences.net

**LEVEL 1 REPORT
41 GLENBROOK DRIVE, NAMBOUR**

Please find attached the Level 1 report for the filling earthworks for 41 Glenbrook Drive, Nambour carried out under Construction Sciences' supervision between 5/12/2022 and 16/08/2023.

This Level 1 report certifies that the filling earthworks have been carried out in general accordance with Section 4.8 of the Morrison Geotechnic report (ME18-065) including being in accordance with AS3798-2007 "Guidelines on Earthworks for Commercial and Residential Developments".

Thus, the Level 1 report also satisfies the fill earthworks placement requirements pertaining to the OPW Conditions and RAL Conditions, however, in terms of Geotechnical Stability, the Level 1 report does not address these issues as the geotechnical stability across the site is a separate issue outside a Level 1 Report on the placement of fill.

We trust that this meets your project requirements. Please don't hesitate to contact Thomas Hewitt or the undersigned should you have any queries in regards to this report.

Yours faithfully,



David Stirling
Principal Geotechnical Engineer RPEQ 8820
for **Construction Sciences**



Level 1 Report

41 Glenbrook Drive, Nambour

CCA Winslow

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Document History

Effective Date	Description of Revision	Prepared By	Reviewed By	Approved By
4/9/2023	Final	TWH	DS	TWH
5/10/2023	Updated Final Report		DS	TWH

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Introduction

Construction Sciences is the largest private provider of construction materials testing services across Australia. We have a total staff of over 600 staff in 48 permanent offices/laboratories.

We have provided QA testing services to some of the largest road and mining infrastructure projects in these states, as well as overseas.

Over the last 3 to 4 years, Construction Sciences has established more site laboratories for road, rail, mining, and other large infrastructure projects than any other company.

We benefit our clients with the following clear differentiators;

Staff Mobilisation: Construction Sciences' geographic expansion and mobility allow for teams to be available when required, and currently we have the lion's share of major projects in Australia.

Quality Management: Construction Sciences' purpose-built software, COMPLY provides our clients with confidence, by knowing project data is securely stored. COMPLY has a built-in secure audit trail and a fully tracked Quality system. We are also ISO9001 compliant and certified.

Client Relationships: We listen to your needs and respond with innovative solutions that are tailored for your business. We believe in building relationships with our staff and local community.

Safety: At Construction Sciences we embrace a 'safety' culture and it is a key consideration with every project. Currently we are over 2 years LTI (lost time injury) free.

Construction Sciences Pty Ltd was commissioned by **CCA Winslow** to provide Level 1 inspection and testing services for the placement of fill at the residential development:-

PROJECT: Bulk earthworks for residential housing.

ADDRESS: 41 Glenbrook Drive, Nambour

The earthworks were carried between the 5/12/2022 and the 16/08/2023.

Specification Requirements

Filling was carried out in accordance with AS3798-2007 '*Guidelines on earthworks for commercial and residential developments*' along with the project specification prepared for the project and in general accordance with Section 4.8 of the Morrison Geotechnic report (ME18-065).

The specification requirements were that all fill was to be placed and compacted in layers to a density ratio of not less than 95% of the rapid reference density as determined by AS1289.5.7.1 (standard compaction).

Site Works

The area to be filled was stripped and proof rolled in accordance with the specification requirements. The fill material is comprised of CBR45 recycled material road base.

Compaction Control Testing

Compaction control tests were carried out at regular intervals throughout the placement of fill in accordance with the minimum test frequency recommendations included in AS3798-2007 '*Guidelines on earthworks for commercial and residential developments*'. All test results are included.

A summary of the test results is included as Table 1.1. A total of 153 field density tests were carried out throughout the earthworks. The average density ratio was 100.4% with a standard deviation of 2.6%.

Conclusion

The relevant placement of fill at 41 Glenbrook Drive was carried out in a controlled manner and the fill was compacted to a wet density ratio not less than the specified requirement of 95%. It is concluded that the fill may be deemed to be '*controlled fill*' in accordance with AS2870 – 2011 '*Residential Slabs & Footings*'.



Thomas Hewitt
Laboratory Manager
CONSTRUCTION SCIENCES



David Stirling
Principal Geotechnical Engineer RPEQ 8820
CONSTRUCTION SCIENCES



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Important Information about this Geotechnical Report

Scope of Work

The purpose of this report and any associated documentation is expressly stated in the document. This document does not form a complete assessment of the site, and no implicit determinations about Construction Sciences scope can be taken if not specifically referenced. Whilst this report is intended to reduce geotechnical risk, no level of detail or scope of work can entirely eliminate risk.

The nature of geotechnical data typically precludes auxiliary environmental assessment without undertaking specific methods in the investigation. Therefore, unless it is explicitly stated in the scope of work, this report does not provide any contamination or environmental assessment of the site or adjacent sites, nor can it be inferred or implied from any component of the document.

The scope of work, geotechnical information, and assessments made by Construction Sciences may be summarised in the report; however, all aspects of the document, including associated data and limitations should be reviewed in its entirety.

Standard of care

Construction Sciences have undertaken investigations, performed consulting services, and prepared this report based on the Client's specific requirements, data that was available or was collected, and previous experience.

Construction Sciences findings and assessment represent its reasonable judgment, diligence, skill, with sound professional standards, within the time and budget constraints of its commission. No warranty, expressed or implied, is made as to the professional advice included in this report.

Data sources

In preparing this document, or providing any consulting services during the commission, Construction Sciences may have relied on information from third parties including, but not limited to; sub-consultants, published data, and the Client including its employees or representatives. This data may not be verified and Construction Sciences assumes no responsibility for the adequacy, incompleteness, inaccuracies, or reliability of this information.

Construction Sciences does not assume any responsibility for assessments made partly, or entirely based on information provided by third parties.

Variability in conditions and limitations of data

Subsurface conditions are complex and can be highly variable; they cannot be accurately defined by discrete investigations. Geotechnical data is based on investigation locations which are explicitly representative of the specific sample or test points. Interpretation of conditions between such points cannot be assumed to represent actual subsurface information and there are unknowns or variations in ground conditions between test locations that cannot be inferred or predicted.

The precision and reliability of interpretive assessment between discrete points is dependent on the uniformity of the subsurface strata, as well as the frequency, detail, and method of sampling or testing.

Subsurface conditions are formed by various natural and anthropogenic processes and therefore are subject to change over time. This is particularly relevant with changes to the site ownership or usage, site boundary or layout, and design or planning modifications. Aspects of the site may also not be able to be determined due to physical or project related constraints and any information provided by Construction Sciences cannot apply following modification to the site, regulations, standards, or the development itself.

It is important to appreciate that no level of detail in investigation, or diligence in assessment, can eliminate uncertainty related to subsurface conditions and thus, geotechnical risk. Construction Sciences cannot and does not provide unqualified warranties nor does it assume any liability for site conditions not observed or accessible during the investigations.

Verification of opinions and recommendations

Geotechnical information, by nature, represents an opinion and is based extensively on judgment of both data and interpretive assessments or observation. This report and its associated documentation are provided explicitly based on Construction Sciences opinion of the site at the time of inspection, and cannot be extended beyond this.

Any recommendations or design are provided as preliminary until verified on site during project implementation or construction. Inspection and verification on site shall be conducted by a suitably qualified geotechnical consultant or engineer, and where subsurface conditions or interpretations differ from those provided in this document or otherwise anticipated, Construction Sciences must be notified and be provided with an opportunity to review the recommendations.

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Table 1-1 Summary of field density test results

Sample Number	Easting	Northing	Layer/RL	Wet Density Ratio
3740/S/233585	494218	7056137	Layer 1	99
3740/S/233586	494221	7056151	Layer 2	102.5
3740/S/233587	494309	7055986	Layer 1	96
3740/S/233594	494333	7055985	Layer 2	95
3740/S/233705	494293	7055982	Layer 3	95.5
3740/S/233706	494329	7055985	Layer 4	101
3740/S/233707	494226	7056157	Layer 3	98.5
3740/S/233708	494323	7055984	Layer 5	103.5
3740/S/233716	494348	7055984	Layer 5	100.5
3740/S/233923	494293	7055989	74.85	101
3740/S/233924	494319	7055988	72.9	101
3740/S/233925	494371	7056011	74.51	102
3740/S/234013	494289	7055984	75.5	101
3740/S/234014	494307	7055983	73.8	100.5
3740/S/234015	494352	7055990	74.1	100.5
3740/S/234191	494299	7055975	75.4	101
3740/S/234192	494332	7055980	72	103
3740/S/234423	494284	7055981	77.6	99.5
3740/S/234424	494294	7055981	77.5	101
3740/S/234425	494294	7055971	77.8	101.5
3740/S/234517	494204	7056023	70.1	97
3740/S/234518	494207	7056010	70.1	96.5
3740/S/234519	494199	7056016	68.5	95.5
3740/S/234369	494294	7055983	76.5	105.5
3740/S/234370	494437	7056032	74.6	102.5
3740/S/234371	494461	7056001	73.1	99.5
3740/S/234372	494362	7056040	70.3	99
3740/S/234737	494185	7056001	71	99.5
3740/S/234738	494198	7055984	74.5	106.5
3740/S/234739	494201	7055980	70.1	105
3740/S/234787	494210	7055988	72.748	95.5
3740/S/234788	494205	7055984	72.789	99
3740/S/234789	494206	7055976	72.728	100
3740/S/234806	494208	7055997	73.965	103.5
3740/S/234807	494206	7055989	74.262	96.5
3740/S/234808	494214	7055980	74.169	104
3740/S/235090	494354	7055933	72.029	100.5
3740/S/235091	494346	7055923	72.119	100.5
3740/S/235092	494356	7055917	72.694	100.5
3740/S/235274	494323	7055931	76.425	96
3740/S/235275	494317	7055933	76.24	99
3740/S/235276	494318	7055943	75.846	95
3740/S/235377	494333	7055915	74.74	100
3740/S/235378	494331	7055920	75.991	98
3740/S/235379	494334	7055932	75.991	101

3740/S/235396	494328	7055897	79.09	105.5
3740/S/235397	494332	7055893	79.901	98.5
3740/S/235398	494349	7055893	79.821	95
3740/S/235549	494316	7055915	79.556	102.5
3740/S/235550	494312	7055923	78.924	101.5
3740/S/235551	494314	7055932	78.331	101.5
3740/S/235688	494341	7055885	81.179	100.5
3740/S/235689	494332	7055896	80.933	99
3740/S/235690	494330	7055890	81.822	101.5
3740/S/235773	494324	7055875	84.33	97.5
3740/S/235774	494335	7055872	84.24	96
3740/S/235775	494324	7055879	83.83	99.5
3740/S/235776	494318	7055879	85.8	101
3740/S/235777	494333	7055873	85.7	97
3740/S/235778	494328	7055876	85.4	103
3740/S/235881	494330	7055876	86.65	100.5
3740/S/235882	494333	7055866	86.9	100.5
3740/S/235883	494338	7055866	86.675	101
3740/S/235954	494304	7055877	87.88	100.5
3740/S/235955	494341	7055865	88.29	103
3740/S/235956	494316	7055870	88.745	99
3740/S/236127	494314	7055864	90.245	102
3740/S/236128	494310	7055867	90.13	99
3740/S/236129	494311	7055867	90.01	99.5
3740/S/236130	494319	7055859	90.55	99
3740/S/236131	494313	7055859	90.64	97.5
3740/S/236132	494320	7055862	90.74	95.5
3740/S/236148	494323	7055853	90.5	99.5
3740/S/236149	494313	7055853	90.775	103
3740/S/236150	494307	7055861	90.23	99.5
3740/S/236433	494266.5	7055800.1	82.53	98.5
3740/S/236434	494295.6	7055765.4	82.35	97.5
3740/S/236456	494265.1	7055813.2	83.63	98
3740/S/236457	494260.7	7055722.1	81.8	96.5
3740/S/236903	494195.9	7055955.6	68.88	97.5
3740/S/236904	494302.3	7055760.5	83.68	101.5
3740/S/236905	494219.6	7055932.8	70.12	96
3740/S/236952	494257	7055801	84.035	100
3740/S/236953	494283	7055781	83.89	103
3740/S/236954	494261	7055792	85.031	100
3740/S/236998	494281	7055764	84.93	99.5
3740/S/236999	494307	7055749	85.7	96
3740/S/237000	494302	7055770	84.19	100
3740/S/237105	494295	7055782	85.57	100
3740/S/237106	494306	7055775	85.965	103.5
3740/S/237107	494605	7055767	83.28	103
3740/S/237108	494200	7055947	71.8	96
3740/S/237505	494266	7055817	85.8	100

3740/S/237756	494304	7055751	87.17	100.5
3740/S/237757	494316	7055760	86.3	100
3740/S/237758	494315	7055772	86.7	100
3740/S/237365	494213	7055958	73.7	98.5
3740/S/237366	494207	7055961	73.9	100
3740/S/237367	494203	7055954	73.6	100.5
3740/S/237368	494215	7055950	73.4	101.5
3740/S/238363	494519	7055940	66.8	101
3740/S/238364	494533	7055938	67.583	100.5
3740/S/238365	494532	7055953	67.36	100
3740/S/238366	494527	7055928	66.754	100
3740/S/238596	494273	7055808	86.93	100
3740/S/238597	494287	7055785	87.15	101.5
3740/S/238598	494546	7055951	68.9	102
3740/S/238599	494528	7055945	68.05	100.5
3740/S/238600	494512	7055949	66.8	102
3740/S/238673	494522	7055945	66.1	101
3740/S/238674	494518	7055940	67.2	98.5
3740/S/238675	494496	7055941	68.05	98.5
3740/S/238747	494321	7055776	87.89	99
3740/S/238748	494328	7055754	87.52	100
3740/S/238749	494298	7055772	88.001	98.5
3740/S/238836	494534	7055947	68.36	100
3740/S/238837	494507	7055954	66.99	95
3740/S/238838	494323	7055766	88.89	105
3740/S/238839	494323	7055757	89.08	103.5
3740/S/238885	494317	7055793	89.16	101.5
3740/S/238886	494323	7055789	88.93	101.5
3740/S/238887	494331	7055775	88.54	102.5
3740/S/238942	494335	7055756	89.91	102
3740/S/238943	494321	7055757	89.48	100.5
3740/S/238944	494317	7055765	89.29	101
3740/S/238945	494320	7055772	89.61	101
3740/S/239191	494325	7055790	90.02	101
3740/S/239192	494330	7055789	89.85	103.5
3740/S/239193	494317	7055770	90.16	100
3740/S/239194	494316	7055805	89.6	105
3740/S/239195	494288	7055805	89.75	104
3740/S/239196	494277	7055827	89.78	106
3740/S/239646	494309	7055807	91.63	100
3740/S/239678	494341	7055776	91.85	97
3740/S/239809	494312	7055792	91.5	100.5
3740/S/239810	494321	7055786	91.7	100.5
3740/S/239811	494322	7055802	91.58	104.5
3740/S/239812	494320	7055803	91.878	107
3740/S/240349	494348	7055773	93.051	101
3740/S/240350	494345	7055771	93.131	100.5
3740/S/240351	494337	7055785	93.002	100.5

3740/S/240674	494336	7055788	93.08	104.5
3740/S/240675	494333	7055781	92.9	103.5
3740/S/240676	494323	7055788	92.78	106
3740/S/241102	494323	7055784	92.28	100
3740/S/241103	494341	7055780	93.49	99.5
3740/S/241104	494354	7055762	93.61	99
3740/S/241286	494354	7055765	93.05	107
3740/S/241287	494341	7055777	94.04	104
3740/S/241288	494343	7055787	93.86	100
3740/S/243044	494313.6	7055801.1	92.12	103.5
3740/S/243045	491321.7	7055794.6	93.71	102
3740/S/243046	494346.1	7055797.1	96.01	102

1. Level of test positions determined by handheld GPS.
2. Standard rapid laboratory compaction used, AS1289.5.7.1.

A large dark blue circle is positioned on the left side of the page. A thick, light blue ring is partially visible, overlapping the dark blue circle and extending towards the right edge of the page.

Appendix A Site Photos

Appendix A – Site Photos

















A large dark blue circle is partially visible on the left side of the page. A thick, light blue ring is positioned around the right edge of this circle, extending from the top right towards the bottom left.

Appendix B

Compaction Reports



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/57480-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive, Nambour	Lot Number:
Location: Nambour	Internal Test Request: 3740/T/43967
Supplied To: n/a	Client Reference/s: Level 1 Supervision 6/12/2022
Area Description:	Report Date / Page: 7/12/2022 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/233585	3740/S/233586	3740/S/233587	3740/S/233594
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	6/12/2022	6/12/2022	6/12/2022	6/12/2022
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	FILL	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard	Standard
Grid	56	56	56	56
Easting (m)	494218	494221	494309	494333
Northing (m)	7056137	7056151	7055986	7055985
RL (m)	Layer 1	Layer 2	Layer 1	Layer 2
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	8	0	0	0
Compaction Sample Number	3740/S/233585	3740/S/233586	3740/S/233587	3740/S/233594
Sample Description	Clay	Clay	Clay	Clay
Moisture Test Results:				
Field Moisture Content (%)	25.3	20.1	25.9	32.4
Adjusted / Moist. Variation (%)	-2.5	-1.0	-2.5	-3.0
Optimum Moisture Content (%)	22.5	19.0	23.5	29.0
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)
Moisture Ratio (%)	113.5	105.0	111.0	111.0
Density Test Results:				
Field Wet Density (t/m ³)	1.98	1.96	1.87	1.81
Adj/Peak Conv Wet Density (t/m ³)	2.00	1.92	1.95	1.90
Density Ratio Required (%)	-	-	-	-
Hilf Density Ratio (%)	99.0	102.5	96.0	95.0

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4
Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/57545-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive, Nambour	Lot Number:
Location: Nambour	Internal Test Request: 3740/T/43997
Supplied To: n/a	Client Reference/s: Level 1 Supervision 7.12.22
Area Description:	Report Date / Page: 9/12/2022 Page 1 of 3

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/233705	3740/S/233706	3740/S/233707	3740/S/233708
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	7/12/2022 09:00	7/12/2022 09:00	7/12/2022 09:00	7/12/2022 09:00
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	Insitu	Insitu	Insitu	Insitu
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / / -	300 / / -	300 / / -	300 / / -
Standard or Modified	Standard	Standard	Standard	Standard
Grid	56	56	56	56
Easting (m)	494293	494329	494226	494323
Northing (m)	7055982	7055985	7056157	7055984
RL (m)	Layer 3	Layer 4	Layer 3	Layer 5
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	8	7
Compaction Sample Number	3740/S/233705	3740/S/233706	3740/S/233707	3740/S/233708
Sample Description	Insitu	Insitu	Insitu	Insitu
Moisture Test Results:				
Field Moisture Content (%)	30.7	24.7	21.4	18.0
Adjusted / Moist. Variation (%)	2.0	2.0	2.0	2.0
Optimum Moisture Content (%)	33.0	27.0	23.5	20.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	92.5	91.0	91.0	88.0
Density Test Results:				
Field Wet Density (t/m ³)	1.91	2.00	1.88	2.04
Adj/Peak Conv Wet Density (t/m ³)	2.00	1.98	1.91	1.97
Density Ratio Required (%)	-	-	-	-
Hilf Density Ratio (%)	95.5	101.0	98.5	103.5

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4
Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow Client Address: Level 1, 85 Brandl Street, Eight Mile Plains Project: 41 Glenbrook Drive, Nambour Location: Nambour Supplied To: n/a Area Description:	Report Number: 3740/R/57545-1 Project Number: 3740/P/2575 Lot Number: Internal Test Request: 3740/T/43997 Client Reference/s: Level 1 Supervision 7.12.22 Report Date / Page: 9/12/2022 Page 2 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/233716		
ID / Client ID	-		
Lot Number	-		
Date / Time Tested	7/12/2022 13:00		
Material Source	Onsite		
Material Type	Insitu		
Sampling Method	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	300 / / -		
Standard or Modified	Standard		
Grid	56		
Easting (m)	494348		
Northing (m)	7055984		
RL (m)	Layer 5		
Test Fraction (mm)	< 19.0 mm		
Sample Oversize (%)	8		
Compaction Sample Number	3740/S/233716		
Sample Description	Insitu		
Moisture Test Results:			
Field Moisture Content (%)	19.4		
Adjusted / Moist. Variation (%)	2.5		
Optimum Moisture Content (%)	22.0		
Moisture Variation from OMC	(Drier than OMC)		
Moisture Ratio (%)	88.0		
Density Test Results:			
Field Wet Density (t/m ³)	1.98		
Adj/Peak Conv Wet Density (t/m ³)	1.98		
Density Ratio Required (%)	-		
Hilf Density Ratio (%)	100.5		

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	
Accreditation Number: 1986 Corporate Site Number: 3740	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/57710-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive, Nambour	Lot Number:
Location: Nambour	Internal Test Request: 3740/T/44045
Supplied To: n/a	Client Reference/s: Level 1 Supervision 12/12/2022
Area Description:	Report Date / Page: 20/12/2022 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/233923	3740/S/233924	3740/S/233925
ID / Client ID	-	-	-
Lot Number	-	-	-
Date / Time Tested	12/12/2022 09:00	12/12/2022 09:00	12/12/2022 09:00
Material Source	Onsite	Onsite	Onsite
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494293	494319	494371
Northing (m)	7055989	7055988	7056011
RL (m)	74.85	72.90	74.51
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/233923	3740/S/233924	3740/S/233925
Sample Description	Sandy Gravely Clay / Brown	Sandy Gravely Clay / Brown	Sandy Gravely Clay / Brown
Moisture Test Results:			
Field Moisture Content (%)	23.7	26.5	15.4
Adjusted / Moist. Variation (%)	0.5	0.0	2.5
Optimum Moisture Content (%)	24.5	27.0	18.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	97.5	99.0	86.0
Density Test Results:			
Field Wet Density (t/m ³)	2.00	2.00	2.03
Adj/Peak Conv Wet Density (t/m ³)	1.98	1.97	1.99
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	101.0	101.0	102.0

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4
Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/57711-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive, Nambour	Lot Number:
Location: Nambour	Internal Test Request: 3740/T/44064
Supplied To: n/a	Client Reference/s: Level 1 Supervision 13/12/2022
Area Description:	Report Date / Page: 20/12/2022 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/234013	3740/S/234014	3740/S/234015
ID / Client ID	-	-	-
Lot Number	-	-	-
Date / Time Tested	13/12/2022 08:00	13/12/2022 08:00	13/12/2022 08:00
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494289	494307	494352
Northing (m)	7055984	7055983	7055990
RL (m)	75.5	73.8	74.1
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/234013	3740/S/234014	3740/S/234015
Sample Description	Sandy Gravely Clay / Brown Red	Sandy Gravely Clay / Brown Red	Sandy Gravely Clay / Brown Red
Moisture Test Results:			
Field Moisture Content (%)	12.2	17.4	16.4
Adjusted / Moist. Variation (%)	2.5	0.5	2.0
Optimum Moisture Content (%)	15.0	18.0	18.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	82.5	97.0	87.5
Density Test Results:			
Field Wet Density (t/m ³)	2.06	2.09	2.20
Adj/Peak Conv Wet Density (t/m ³)	2.04	2.08	2.19
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	101.0	100.5	100.5

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4
Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow Client Address: Level 1, 85 Brandl Street, Eight Mile Plains Project: 41 Glenbrook Drive Location: Nambour Supplied To: n/a Area Description:	Report Number: 3740/R/61334-1 Project Number: 3740/P/2575 Lot Number: Internal Test Request: 3740/T/44102 Client Reference/s: Level 1 Supervision 15/12/2022 Report Date / Page: 4/09/2023 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/234191	3740/S/234192	
ID / Client ID	-	-	
Lot Number	-	-	
Date / Time Tested	15/12/2022	15/12/2022	
Material Source	Onsite	Onsite	
Material Type	FILL	FILL	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	
Standard or Modified	Standard	Standard	
Grid	56	56	
Easting (m)	494299	494332	
Northing (m)	7055975	7055980	
RL (m)	75.4	72.0	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	
Compaction Sample Number	3740/S/234191	3740/S/234192	
Sample Description	Sandy Gravely Clay / Brown	Sandy Gravely Clay / Brown	
Moisture Test Results:			
Field Moisture Content (%)	16.3	14.0	
Adjusted / Moist. Variation (%)	0.5	2.5	
Optimum Moisture Content (%)	16.5	16.5	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	
Moisture Ratio (%)	98.0	84.0	
Density Test Results:			
Field Wet Density (t/m ³)	2.09	2.15	
Adj/Peak Conv Wet Density (t/m ³)	2.07	2.09	
Density Ratio Required (%)	100	100	
Hilf Density Ratio (%)	101.0	103.0	

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow Client Address: Level 1, 85 Brandl Street, Eight Mile Plains Project: 41 Glenbrook Drive, Nambour Location: Nambour Supplied To: n/a Area Description:	Report Number: 3740/R/57953-1 Project Number: 3740/P/2575 Lot Number: Internal Test Request: 3740/T/44142 Client Reference/s: Level 1 Supervision 20/12/2022 Report Date / Page: 13/01/2023 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/234423	3740/S/234424	3740/S/234425
ID / Client ID	-	-	-
Lot Number	-	-	-
Date / Time Tested	20/12/2022 08:00	20/12/2022 08:00	20/12/2022 08:00
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid			
Easting (m)	494284	494294	494294
Northing (m)	7055981	7055981	7055971
RL (m)	77.6	77.5	77.8
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/234423	3740/S/234424	3740/S/234425
Sample Description	Clay	Clay	Clay
Moisture Test Results:			
Field Moisture Content (%)	16.7	15.9	14.9
Adjusted / Moist. Variation (%)	1.5	2.0	1.5
Optimum Moisture Content (%)	18.5	18.0	16.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	90.5	89.5	90.0
Density Test Results:			
Field Wet Density (t/m ³)	2.00	2.04	2.05
Adj/Peak Conv Wet Density (t/m ³)	2.00	2.02	2.02
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	99.5	101.0	101.5

Remarks

<div style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</div>  <p>Accreditation Number: 1986 Corporate Site Number: 3740</p>	 Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4
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LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow Client Address: Level 1, 85 Brandl Street, Eight Mile Plains Project: 41 Glenbrook Drive, Nambour Location: Nambour Supplied To: n/a Area Description:	Report Number: 3740/R/57954-1 Project Number: 3740/P/2575 Lot Number: Internal Test Request: 3740/T/44171 Client Reference/s: Level 1 Supervision 21/12/2022 Report Date / Page: 13/01/2023 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/234517	3740/S/234518	3740/S/234519
ID / Client ID	-	-	-
Lot Number	-	-	-
Date / Time Tested	21/12/2022 08:00	21/12/2022 08:00	21/12/2022 08:00
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid			
Easting (m)	494204	494207	494199
Northing (m)	7056023	7056010	7056016
RL (m)	70.1	70.1	68.5
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/234517	3740/S/234518	3740/S/234519
Sample Description	Clay	Clay	Clay
Moisture Test Results:			
Field Moisture Content (%)	17.0	8.0	38.2
Adjusted / Moist. Variation (%)	2.0	4.5	-2.0
Optimum Moisture Content (%)	19.0	13.0	35.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Wetter than OMC)
Moisture Ratio (%)	89.5	62.5	107.0
Density Test Results:			
Field Wet Density (t/m ³)	2.01	2.08	1.94
Adj/Peak Conv Wet Density (t/m ³)	2.08	2.16	2.03
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	97.0	96.5	95.5

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/57901-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive, Nambour	Lot Number:
Location: Nambour	Internal Test Request: 3740/T/44128
Supplied To: n/a	Client Reference/s: Level 1 Supervision 16/12/2022 & 19
Area Description:	Report Date / Page: 9/01/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/234369	3740/S/234370	3740/S/234371	3740/S/234372
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	19/12/2022 08:00	19/12/2022 08:00	19/12/2022 08:00	19/12/2022 08:00
Material Source	Insitu	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard	Standard
Grid				
Easting (m)	494294	494437	494461	494362
Northing (m)	7055983	7056032	7056001	7056040
RL (m)	76.5	74.6	73.1	70.3
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	3740/S/234369	3740/S/234370	3740/S/234371	3740/S/234372
Sample Description	Clay	Clay	Clay	Clay
Moisture Test Results:				
Field Moisture Content (%)	14.3	12.5	17.1	15.8
Adjusted / Moist. Variation (%)	1.5	2.0	0.0	0.0
Optimum Moisture Content (%)	16.0	14.5	17.0	16.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Wetter than OMC)	(at OMC)
Moisture Ratio (%)	90.0	87.5	101.0	100.0
Density Test Results:				
Field Wet Density (t/m ³)	2.17	2.16	2.10	1.96
Adj/Peak Conv Wet Density (t/m ³)	2.06	2.11	2.11	1.99
Density Ratio Required (%)	-	-	-	-
Hilf Density Ratio (%)	105.5	102.5	99.5	99.0

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4
Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow Client Address: Level 1, 85 Brandl Street, Eight Mile Plains Project: 41 Glenbrook Drive, Nambour Location: Nambour Supplied To: n/a Area Description:	Report Number: 3740/R/57997-1 Project Number: 3740/P/2575 Lot Number: Internal Test Request: 3740/T/44209 Client Reference/s: Level 1 Supervision 11/01/2023 Report Date / Page: 17/01/2023 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/234737	3740/S/234738	3740/S/234739
ID / Client ID	-	-	-
Lot Number	-	-	-
Date / Time Tested	11/01/2023 11:00	11/01/2023 11:00	11/01/2023 11:00
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid			
Easting (m)	494185	494198	494201
Northing (m)	7056001	7055984	7055980
RL (m)	71	74.5	70.1
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/234737	3740/S/234738	3740/S/234739
Sample Description	Insitu	Insitu	Insitu
Moisture Test Results:			
Field Moisture Content (%)	21.9	28.3	23.2
Adjusted / Moist. Variation (%)	0.0	0.5	0.5
Optimum Moisture Content (%)	22.0	29.0	23.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	99.0	98.5	98.0
Density Test Results:			
Field Wet Density (t/m ³)	1.89	1.99	1.98
Adj/Peak Conv Wet Density (t/m ³)	1.90	1.87	1.88
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	99.5	106.5	105.0

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4
Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/57998-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive, Nambour	Lot Number: 7-8
Location: Nambour	Internal Test Request: 3740/T/44223
Supplied To: n/a	Client Reference/s: Level 1 Supervision 12/01/2023
Area Description:	Report Date / Page: 17/01/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/234787	3740/S/234788	3740/S/234789
ID / Client ID	-	-	-
Lot Number	7-8	7-8	7-8
Date / Time Tested	12/01/2023 10:00	12/01/2023 10:00	12/01/2023 10:00
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid			
Easting (m)	494210	494205	494206
Northing (m)	7055988	7055984	7055976
RL (m)	72.748	72.789	72.728
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	5	4	4
Compaction Sample Number	3740/S/234787	3740/S/234788	3740/S/234789
Sample Description	Insitu	Insitu	Insitu
Moisture Test Results:			
Field Moisture Content (%)	11.3	9.8	10.7
Adjusted / Moist. Variation (%)	4.0	4.5	4.5
Optimum Moisture Content (%)	15.5	14.5	15.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	72.5	67.0	69.0
Density Test Results:			
Field Wet Density (t/m ³)	1.98	2.12	2.12
Adj/Peak Conv Wet Density (t/m ³)	2.07	2.14	2.13
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	95.5	99.0	100.0

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4
Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow Client Address: Level 1, 85 Brandl Street, Eight Mile Plains Project: 41 Glenbrook Drive, Nambour Location: Nambour Supplied To: n/a Area Description:	Report Number: 3740/R/57999-1 Project Number: 3740/P/2575 Lot Number: Internal Test Request: 3740/T/44229 Client Reference/s: Level 1 Supervision 13/01/2023 Report Date / Page: 17/01/2023 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/234806	3740/S/234807	3740/S/234808
ID / Client ID	-	-	-
Lot Number	-	-	-
Date / Time Tested	13/01/2023 09:00	13/01/2023 09:00	13/01/2023 09:00
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid			
Easting (m)	494208	494206	494214
Northing (m)	7055997	7055989	7055980
RL (m)	73.965	74.262	74.169
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	4	4	6
Compaction Sample Number	3740/S/234806	3740/S/234807	3740/S/234808
Sample Description	Insitu	Insitu	Insitu
Moisture Test Results:			
Field Moisture Content (%)	10.3	11.8	11.6
Adjusted / Moist. Variation (%)	4.5	4.0	4.5
Optimum Moisture Content (%)	15.0	16.0	16.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	68.5	73.0	70.5
Density Test Results:			
Field Wet Density (t/m ³)	2.20	2.01	2.23
Adj/Peak Conv Wet Density (t/m ³)	2.12	2.08	2.14
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	103.5	96.5	104.0

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
 Accreditation Number: 1986 Corporate Site Number: 3740	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/58096-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive, Nambour	Lot Number: 37-36
Location: Nambour	Internal Test Request: 3740/T/44291
Supplied To: n/a	Client Reference/s: Level 1 Supervision 19/01/2023
Area Description:	Report Date / Page: 27/01/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/235090	3740/S/235091	3740/S/235092
ID / Client ID	-	-	-
Lot Number	37-36	37-36	37-36
Date / Time Tested	19/01/2023 08:30	19/01/2023 08:30	19/01/2023 08:30
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494354	494346	494356
Northing (m)	7055933	7055923	7055917
RL (m)	72.029	72.119	72.694
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/235090	3740/S/235091	3740/S/235092
Sample Description	Sandy Gravely Clay	Sandy Gravely Clay	Sandy Gravely Clay
Moisture Test Results:			
Field Moisture Content (%)	18.8	29.2	33.5
Adjusted / Moist. Variation (%)	2.5	0.0	-0.5
Optimum Moisture Content (%)	21.5	29.0	33.0
Moisture Variation from OMC	(Drier than OMC)	(Wetter than OMC)	(Wetter than OMC)
Moisture Ratio (%)	88.5	100.5	101.0
Density Test Results:			
Field Wet Density (t/m ³)	1.96	1.93	1.96
Adj/Peak Conv Wet Density (t/m ³)	1.95	1.93	1.94
Density Ratio Required (%)	95	95	95
Hilf Density Ratio (%)	100.5	100.5	100.5

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/58138-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number:
Location: Nambour	Internal Test Request: 3740/T/44336
Supplied To: n/a	Client Reference/s: Level 1 Supervision 23/01/2023
Area Description:	Report Date / Page: 1/02/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/235274	3740/S/235275	3740/S/235276
ID / Client ID	-	-	-
Lot Number	-	-	-
Date / Time Tested	23/01/2023	23/01/2023	23/01/2023
Material Source	Onsite	Onsite	Onsite
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid			
Easting (m)	494323	494317	494318
Northing (m)	7055931	7055933	7055943
RL (m)	76.425	76.24	75.846
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	4	0	0
Compaction Sample Number	3740/S/235274	3740/S/235275	3740/S/235276
Sample Description	Clay	Clay	Clay
Moisture Test Results:			
Field Moisture Content (%)	22.7	19.2	20.5
Adjusted / Moist. Variation (%)	-3.0	0.0	0.0
Optimum Moisture Content (%)	20.0	19.5	20.5
Moisture Variation from OMC	(Wetter than OMC)	(Drier than OMC)	(at OMC)
Moisture Ratio (%)	114.0	99.5	100.0
Density Test Results:			
Field Wet Density (t/m ³)	1.88	1.90	1.86
Adj/Peak Conv Wet Density (t/m ³)	1.96	1.92	1.95
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	96.0	99.0	95.0

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/58139-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: 31-37
Location: Nambour	Internal Test Request: 3740/T/44354
Supplied To: n/a	Client Reference/s: Level 1 Supervision 24/01/2023
Area Description:	Report Date / Page: 1/02/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/235377	3740/S/235378	3740/S/235379
ID / Client ID	-	-	-
Lot Number	31-37	31-37	31-37
Date / Time Tested	24/01/2023 09:00	24/01/2023 09:00	24/01/2023 09:00
Material Source	Onsite	Onsite	Onsite
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid			
Easting (m)	494333	494331	494334
Northing (m)	7055915	7055920	7055932
RL (m)	74.740	75.991	75.991
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	7	0
Compaction Sample Number	3740/S/235377	3740/S/235378	3740/S/235379
Sample Description	Clay	Clay	Clay
Moisture Test Results:			
Field Moisture Content (%)	19.4	20.6	20.7
Adjusted / Moist. Variation (%)	0.0	-0.5	-0.5
Optimum Moisture Content (%)	19.5	20.0	20.0
Moisture Variation from OMC	(Drier than OMC)	(Wetter than OMC)	(Wetter than OMC)
Moisture Ratio (%)	99.5	102.0	102.5
Density Test Results:			
Field Wet Density (t/m ³)	2.03	2.04	2.08
Adj/Peak Conv Wet Density (t/m ³)	2.03	2.08	2.06
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	100.0	98.0	101.0

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow Client Address: Level 1, 85 Brandl Street, Eight Mile Plains Project: 41 Glenbrook Drive Location: Nambour Supplied To: n/a Area Description:	Report Number: 3740/R/58178-1 Project Number: 3740/P/2575 Lot Number: 37-35 Internal Test Request: 3740/T/44356 Client Reference/s: Level 1 Supervision 25/01/2023 Report Date / Page: 3/02/2023 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/235396	3740/S/235397	3740/S/235398
ID / Client ID	-	-	-
Lot Number	37-35	37-35	37-35
Date / Time Tested	25/01/2023 10:00	25/01/2023 10:00	25/01/2023 10:00
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid			
Easting (m)	494328	494332	494349
Northing (m)	7055897	7055893	7055893
RL (m)	79.090	79.901	79.821
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/235396	3740/S/235397	3740/S/235398
Sample Description	Insitu	Clay	Clay
Moisture Test Results:			
Field Moisture Content (%)	20.1	15.3	17.2
Adjusted / Moist. Variation (%)	2.5	2.0	1.5
Optimum Moisture Content (%)	22.5	17.0	19.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	89.5	89.5	91.5
Density Test Results:			
Field Wet Density (t/m ³)	2.10	2.09	2.00
Adj/Peak Conv Wet Density (t/m ³)	1.99	2.12	2.10
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	105.5	98.5	95.0

Remarks

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LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow Client Address: Level 1, 85 Brandl Street, Eight Mile Plains Project: 41 Glenbrook Drive Location: Nambour Supplied To: n/a Area Description:	Report Number: 3740/R/58233-1 Project Number: 3740/P/2575 Lot Number: 38 Internal Test Request: 3740/T/44403 Client Reference/s: Level 1 Supervision 31/01/2023 Report Date / Page: 10/02/2023 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/235549	3740/S/235550	3740/S/235551
ID / Client ID	-	-	-
Lot Number	38	38	38
Date / Time Tested	31/01/2023 10:00	31/01/2023 10:00	31/01/2023 10:00
Material Source	Onsite	Onsite	Onsite
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494316	494312	494314
Northing (m)	7055915	7055923	7055932
RL (m)	79.556	78.924	78.331
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/235549	3740/S/235550	3740/S/235551
Sample Description	Fill	Fill	Fill
<i>Moisture Test Results:</i>			
Field Moisture Content (%)	16.0	27.1	12.3
Adjusted / Moist. Variation (%)	2.0	2.5	2.0
<i>Density Test Results:</i>			
Field Wet Density (t/m ³)	2.11	2.14	2.10
Adj/Peak Conv Wet Density (t/m ³)	2.05	2.10	2.07
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	102.5	101.5	101.5

Remarks

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LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/58234-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: 51
Location: Nambour	Internal Test Request: 3740/T/44442
Supplied To: n/a	Client Reference/s: Level 1 Supervision 1/02/2023
Area Description:	Report Date / Page: 10/02/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/235688	3740/S/235689	3740/S/235690
ID / Client ID	-	-	-
Lot Number	51	51	51
Date / Time Tested	1/02/2023 10:00	1/02/2023 10:00	1/02/2023 10:00
Material Source	Onsite	Onsite	Onsite
Material Type	Insitu	Insitu	Insitu
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494341	494332	494330
Northing (m)	7055885	7055896	7055890
RL (m)	81.179	80.933	81.822
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/235688	3740/S/235689	3740/S/235690
Sample Description	Fill	Fill	Fill
Moisture Test Results:			
Field Moisture Content (%)	13.0	13.6	11.1
Adjusted / Moist. Variation (%)	2.0	2.5	2.0
Density Test Results:			
Field Wet Density (t/m ³)	2.08	2.04	2.12
Adj/Peak Conv Wet Density (t/m ³)	2.07	2.06	2.08
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	100.5	99.0	101.5

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow Client Address: Level 1, 85 Brandl Street, Eight Mile Plains Project: 41 Glenbrook Drive Location: Nambour Supplied To: n/a Area Description:	Report Number: 3740/R/58235-1 Project Number: 3740/P/2575 Lot Number: Lot 51 Internal Test Request: 3740/T/44452 Client Reference/s: Level 1 Supervision 02/02/2023 Report Date / Page: 10/02/2023 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/235773	3740/S/235774	3740/S/235775
ID / Client ID	-	-	-
Lot Number	Lot 51	Lot 51	Lot 51
Date / Time Tested	2/02/2023 10:00	2/02/2023 10:00	2/02/2023 10:00
Material Source	Onsite	Onsite	Onsite
Material Type	Insitu	Insitu	Insitu
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494324	494335	494324
Northing (m)	7055875	7055872	7055879
RL (m)	84.330	84.240	83.830
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/235773	3740/S/235774	3740/S/235775
Sample Description	Fill	Fill	Fill
Moisture Test Results:			
Field Moisture Content (%)	11.7	11.3	11.9
Adjusted / Moist. Variation (%)	1.5	2.0	2.5
Density Test Results:			
Field Wet Density (t/m ³)	2.01	2.01	2.14
Adj/Peak Conv Wet Density (t/m ³)	2.06	2.09	2.14
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	97.5	96.0	99.5

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/58302-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: 50
Location: Nambour	Internal Test Request: 3740/T/44453
Supplied To: n/a	Client Reference/s: Level 1 Supervision 03/02/2023
Area Description:	Report Date / Page: 14/02/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/235776	3740/S/235777	3740/S/235778
ID / Client ID	-	-	-
Lot Number	50	50	50
Date / Time Tested	3/02/2023 10:00	3/02/2023 10:00	3/02/2023 10:00
Material Source	Onsite	Onsite	Onsite
Material Type	Insitu	Insitu	Insitu
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56J	56J	56J
Easting (m)	494318	494333	494328
Northing (m)	7055879	7055873	7055876
RL (m)	85.8	85.7	85.4
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/235776	3740/S/235777	3740/S/235778
Sample Description	Fill	Fill	Fill
Moisture Test Results:			
Field Moisture Content (%)	16.9	16.6	14.2
Adjusted / Moist. Variation (%)	2.5	0.5	3.0
Optimum Moisture Content (%)	19.5	17.0	17.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	86.5	98.0	82.5
Density Test Results:			
Field Wet Density (t/m ³)	2.10	1.96	2.21
Adj/Peak Conv Wet Density (t/m ³)	2.09	2.01	2.14
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	101.0	97.0	103.0

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow Client Address: Level 1, 85 Brandl Street, Eight Mile Plains Project: 41 Glenbrook Drive Location: Nambour Supplied To: n/a Area Description:	Report Number: 3740/R/58303-1 Project Number: 3740/P/2575 Lot Number: 51 Internal Test Request: 3740/T/44482 Client Reference/s: Level 1 Supervision Report Date / Page: 14/02/2023 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/235881	3740/S/235882	3740/S/235883
ID / Client ID	-	-	-
Lot Number	51	51	51
Date / Time Tested	7/02/2023 10:00	7/02/2023 10:00	7/02/2023 10:00
Material Source	Onsite	Onsite	Onsite
Material Type	Insitu	Insitu	Insitu
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494330	494333	494338
Northing (m)	7055876	7055866	7055866
RL (m)	86.650	86.900	86.675
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/235881	3740/S/235882	3740/S/235883
Sample Description	Insitu	Insitu	Insitu
Moisture Test Results:			
Field Moisture Content (%)	25.5	9.1	8.7
Adjusted / Moist. Variation (%)	0.5	2.5	2.5
Optimum Moisture Content (%)	26.5	11.5	11.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	97.0	78.5	77.0
Density Test Results:			
Field Wet Density (t/m ³)	1.94	2.21	2.18
Adj/Peak Conv Wet Density (t/m ³)	1.93	2.20	2.16
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	100.5	100.5	101.0

Remarks

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	Accreditation Number: 1986 Corporate Site Number: 3740	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/58364-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: 51-52
Location: Nambour	Internal Test Request: 3740/T/44500
Supplied To: n/a	Client Reference/s: Level 1 Supervision
Area Description:	Report Date / Page: 16/02/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/235954	3740/S/235955	3740/S/235956
ID / Client ID	-	-	-
Lot Number	51-52	51-52	51-52
Date / Time Tested	7/02/2023 10:00	7/02/2023 10:00	7/02/2023 10:00
Material Source	Onsite	Onsite	Onsite
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494304	494341	494316
Northing (m)	7055877	7055865	7055870
RL (m)	87.880	88.290	88.745
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/235954	3740/S/235955	3740/S/235956
Sample Description	Clay	Clay	Clay
Moisture Test Results:			
Field Moisture Content (%)	15.6	14.0	16.9
Adjusted / Moist. Variation (%)	0.0	2.0	-0.5
Optimum Moisture Content (%)	15.5	16.0	16.5
Moisture Variation from OMC	(Wetter than OMC)	(Drier than OMC)	(Wetter than OMC)
Moisture Ratio (%)	100.5	88.5	103.0
Density Test Results:			
Field Wet Density (t/m ³)	2.17	2.21	2.10
Adj/Peak Conv Wet Density (t/m ³)	2.16	2.15	2.13
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	100.5	103.0	99.0

Remarks

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	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4
Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/58365-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: Lots 50-53
Location: Nambour	Internal Test Request: 3740/T/44535
Supplied To: n/a	Client Reference/s: Leve 1 Supervision
Area Description:	Report Date / Page: 16/02/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/236127	3740/S/236128	3740/S/236129
ID / Client ID	-	-	-
Lot Number	Lots 50-53	Lots 50-53	Lots 50-53
Date / Time Tested	10/02/2023 11:00	10/02/2023 11:00	10/02/2023 11:00
Material Source	Onsite	Onsite	Onsite
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56J	56J	56J
Easting (m)	494314	494310	494311
Northing (m)	7055864	7055867	7055867
RL (m)	90.245	90.130	90.010
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/236127	3740/S/236128	3740/S/236129
Sample Description	Sandy Clay	Sandy Clay	Sandy Clay
Moisture Test Results:			
Field Moisture Content (%)	15.3	14.6	13.8
Adjusted / Moist. Variation (%)	1.5	0.0	2.0
Optimum Moisture Content (%)	17.0	14.5	16.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	90.5	99.5	85.5
Density Test Results:			
Field Wet Density (t/m ³)	2.08	2.04	2.12
Adj/Peak Conv Wet Density (t/m ³)	2.04	2.06	2.13
Density Ratio Required (%)	95	95	95
Hilf Density Ratio (%)	102.0	99.0	99.5

Remarks

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LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow Client Address: Level 1, 85 Brandl Street, Eight Mile Plains Project: 41 Glenbrook Drive Location: Nambour Component: Compaction Control - FILL Area Description: Back Batters - Lots 44-48	Report Number: 3740/R/58475-1 Project Number: 3740/P/2575 Lot Number: Lots 44-48 Internal Test Request: 3740/T/44613 Client Reference/s: Level 1 Supervision 17/2/23 Report Date / Page: 22/02/2023 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/236433	3740/S/236434	
ID / Client ID	FDT 17/2/23	FDT 17/2/23	
Lot Number	Lots 44-48	Lots 44-48	
Date / Time Tested	17/02/2023 12:00	17/02/2023 12:00	
Material Source	Onsite	Onsite	
Material Type	FILL	FILL	
Sampling Method	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b	
Depths: Test / Nom / Actual (mm)	275 / 300 / 300	275 / 300 / 300	
Standard or Modified	Standard	Standard	
Grid	Lot 44 - Back Batter	Lot 47 - Back Batter	
Easting (m)	494266.5	494295.6	
Northing (m)	7055800.1	7055765.4	
RL (m)	82.530	82.350	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	
Compaction Sample Number	3740/S/236433	3740/S/236434	
Sample Description	(Cl)Gravelly Clay	(Cl)Gravelly Clay	
Moisture Test Results:			
Field Moisture Content (%)	11.2	9.2	
Adjusted / Moist. Variation (%)	0.5	0.0	
Optimum Moisture Content (%)	11.5	9.5	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	
Moisture Ratio (%)	97.5	99.0	
Density Test Results:			
Field Wet Density (t/m ³)	2.20	2.12	
Adj/Peak Conv Wet Density (t/m ³)	2.24	2.18	
Density Ratio Required (%)	95	95	
Hilf Density Ratio (%)	98.5	97.5	

Remarks

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LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow Client Address: Level 1, 85 Brandl Street, Eight Mile Plains Project: 41 Glenbrook Drive Location: Nambour Component: Compaction Control - Fill Area Description: Lots 44-48 - Back Batters	Report Number: 3740/R/58476-1 Project Number: 3740/P/2575 Lot Number: Lots 44-48 Internal Test Request: 3740/T/44619 Client Reference/s: Level 1 Supervision 20/02/2023 Report Date / Page: 22/02/2023 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/236456	3740/S/236457	
ID / Client ID	FDT 20/02/23	FDT 20/02/23	
Lot Number	Lots 44-48	Lots 44-48	
Date / Time Tested	20/02/2023 11:00	20/02/2023 11:30	
Material Source	Onsite	Onsite	
Material Type	FILL	FILL	
Sampling Method	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b	
Depths: Test / Nom / Actual (mm)	275 / 300 / 300	275 / 300 / 300	
Standard or Modified	Standard	Standard	
Grid	Lot 44	Lot 45	
Easting (m)	494265.1	494260.7	
Northing (m)	7055813.2	7055722.1	
RL (m)	83.630	81.800	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	7	
Compaction Sample Number	3740/S/236456	3740/S/236457	
Sample Description	(Cl)Gravelly Clay	(Cl)Gravelly Clay	
Moisture Test Results:			
Field Moisture Content (%)	12.4	9.9	
Adjusted / Moist. Variation (%)	0.0	0.0	
Optimum Moisture Content (%)	12.5	10.0	
Moisture Variation from OMC	(Wetter than OMC)	(Drier than OMC)	
Moisture Ratio (%)	101.0	99.0	
Density Test Results:			
Field Wet Density (t/m ³)	2.20	2.16	
Adj/Peak Conv Wet Density (t/m ³)	2.25	2.23	
Density Ratio Required (%)	95	95	
Hilf Density Ratio (%)	98.0	96.5	

Remarks

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LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/58484-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: 51-52
Location: Nambour	Internal Test Request: 3740/T/44536
Supplied To: n/a	Client Reference/s: Level 1 Supervision
Area Description:	Report Date / Page: 23/02/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/236130	3740/S/236131	3740/S/236132
ID / Client ID	-	-	-
Lot Number	51-52	51-52	51-52
Date / Time Tested	9/02/2023 10:01	9/02/2023 10:01	9/02/2023 10:01
Material Source	Onsite	Onsite	Onsite
Material Type	Insitu	Insitu	Insitu
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56J	56J	56J
Easting (m)	494319	494313	494320
Northing (m)	7055859	7055859	7055862
RL (m)	90.550	90.640	90.740
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/236130	3740/S/236131	3740/S/236132
Sample Description	Clay	Clay	Clay
Moisture Test Results:			
Field Moisture Content (%)	14.3	10.5	19.3
Adjusted / Moist. Variation (%)	2.0	3.0	-2.5
Optimum Moisture Content (%)	16.5	13.5	17.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Wetter than OMC)
Moisture Ratio (%)	86.5	78.0	113.5
Density Test Results:			
Field Wet Density (t/m ³)	2.14	2.13	1.93
Adj/Peak Conv Wet Density (t/m ³)	2.16	2.18	2.02
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	99.0	97.5	95.5

Remarks

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LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/58485-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: Lot 51-53
Location: Nambour	Internal Test Request: 3740/T/44543
Supplied To: n/a	Client Reference/s: Level 1 Supervision
Area Description:	Report Date / Page: 23/02/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/236148	3740/S/236149	3740/S/236150
ID / Client ID	-	-	-
Lot Number	Lot 51-53	Lot 51-53	Lot 51-53
Date / Time Tested	10/02/2023 12:00	10/02/2023 12:00	10/02/2023 12:00
Material Source	Onsite	Onsite	Onsite
Material Type	Insitu	Insitu	Insitu
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid			
Easting (m)	494323	494313	494307
Northing (m)	7055853	7055853	7055861
RL (m)	90.500	90.775	90.230
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/236148	3740/S/236149	3740/S/236150
Sample Description	Clay	Clay	Clay
Moisture Test Results:			
Field Moisture Content (%)	11.2	11.7	10.5
Adjusted / Moist. Variation (%)	2.5	3.5	3.5
Optimum Moisture Content (%)	14.0	15.5	14.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	80.5	76.0	73.5
Density Test Results:			
Field Wet Density (t/m ³)	2.16	2.22	2.23
Adj/Peak Conv Wet Density (t/m ³)	2.18	2.16	2.24
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	99.5	103.0	99.5

Remarks

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LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/58595-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: Lot 44,45,47
Location: Nambour	Internal Test Request: 3740/T/44739
Supplied To: n/a	Client Reference/s: Level 1 Supervision 1/03/2023
Area Description:	Report Date / Page: 6/03/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/236952	3740/S/236953	3740/S/236954
ID / Client ID	-	-	-
Lot Number	Lot 44,45,47	Lot 44,45,47	Lot 44,45,47
Date / Time Tested	1/03/2023 12:00	1/03/2023 12:00	1/03/2023 12:00
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494257	494283	494261
Northing (m)	7055801	7055781	7055792
RL (m)	84.035	83.890	85.031
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	6	7	0
Compaction Sample Number	3740/S/236952	3740/S/236953	3740/S/236954
Sample Description	Sandy Clay	Sandy Clay	Fill
Moisture Test Results:			
Field Moisture Content (%)	8.8	13.0	9.9
Adjusted / Moist. Variation (%)	3.0	1.5	2.0
Optimum Moisture Content (%)	12.0	15.0	12.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	73.5	88.0	82.0
Density Test Results:			
Field Wet Density (t/m ³)	2.22	2.19	2.13
Adj/Peak Conv Wet Density (t/m ³)	2.21	2.12	2.13
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	100.0	103.0	100.0

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/58596-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: Lots 8,9 & 47
Location: Nambour	Internal Test Request: 3740/T/44725
Component: Compaction Control - FILL	Client Reference/s: Level 1 Supervision 28/02/2023
Area Description: Lots 8-9 & Lot 47	Report Date / Page: 6/03/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/236903	3740/S/236904	3740/S/236905
ID / Client ID	FDT 28/2/23	FDT 28/2/23	FDT 28/2/23
Lot Number	Lots 8,9 & 47	Lots 8,9 & 47	Lots 8,9 & 47
Date / Time Tested	28/02/2023 10:30	28/02/2023 11:00	28/02/2023 12:00
Material Source	Onsite	Onsite	Onsite
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard
Grid	Lot 8	Lot 47	Lot 9
Easting (m)	494195.9	494302.3	494219.6
Northing (m)	7055955.6	7055760.5	7055932.8
RL (m)	68.88	83.68	70.12
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	3	13	3
Compaction Sample Number	3740/S/236903	3740/S/236904	3740/S/236905
Sample Description	Sandy Clay	Fill	Sandy Clay
Moisture Test Results:			
Field Moisture Content (%)	13.8	17.5	13.5
Adjusted / Moist. Variation (%)	2.0	2.0	2.0
Optimum Moisture Content (%)	16.0	19.5	15.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	85.0	89.5	86.0
Density Test Results:			
Field Wet Density (t/m ³)	2.13	2.17	1.96
Adj/Peak Conv Wet Density (t/m ³)	2.19	2.13	2.04
Density Ratio Required (%)	95	95	95
Hiif Density Ratio (%)	97.5	101.5	96.0

Remarks

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LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/58667-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number:
Location: Nambour	Internal Test Request: 3740/T/44759
Supplied To: n/a	Client Reference/s: Level 1 Supervision 02/03/2023
Area Description:	Report Date / Page: 8/03/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/236998	3740/S/236999	3740/S/237000
ID / Client ID	-	-	-
Lot Number	-	-	-
Date / Time Tested	2/03/2023 07:00	2/03/2023 07:00	2/03/2023 07:00
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494281	494307	494302
Northing (m)	7055764	7055749	7055770
RL (m)	84.930	85.700	84.190
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	5	11	28
Compaction Sample Number	3740/S/236998	3740/S/236999	3740/S/237000
Sample Description	Sandy Clay	Sandy Clay	Sandy Clay
Moisture Test Results:			
Field Moisture Content (%)	14.2	14.6	9.5
Adjusted / Moist. Variation (%)	1.5	0.5	4.0
Optimum Moisture Content (%)	16.0	15.0	14.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	89.0	96.5	65.0
Density Test Results:			
Field Wet Density (t/m ³)	2.18	2.08	2.25
Adj/Peak Conv Wet Density (t/m ³)	2.19	2.16	2.26
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	99.5	96.0	100.0

Remarks

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LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/58731-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number:
Location: Nambour	Internal Test Request: 3740/T/44787
Supplied To: n/a	Client Reference/s: Level 1 Supervision 03/03/2023
Area Description:	Report Date / Page: 10/03/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/237105	3740/S/237106	3740/S/237107	3740/S/237108
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	3/03/2023 12:00	3/03/2023 12:00	3/03/2023 12:00	3/03/2023 12:00
Material Source	Insitu	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard	Standard
Grid	56J	56J	56J	56J
Easting (m)	494295	494306	494605	494200
Northing (m)	7055782	7055775	7055767	7055947
RL (m)	85.57	85.965	83.28	71.8
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	6	5	6	1
Compaction Sample Number	3740/S/237105	3740/S/237106	3740/S/237107	3740/S/237108
Sample Description	brown clay	brown clay	brown clay	brown clay
Moisture Test Results:				
Field Moisture Content (%)	12.7	12.8	13.5	11.2
Adjusted / Moist. Variation (%)	1.5	2.0	2.0	3.5
Optimum Moisture Content (%)	14.0	15.0	16.0	14.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	89.5	85.0	85.0	77.0
Density Test Results:				
Field Wet Density (t/m ³)	2.22	2.18	2.21	2.04
Adj/Peak Conv Wet Density (t/m ³)	2.23	2.11	2.14	2.12
Density Ratio Required (%)	-	-	-	-
Hilf Density Ratio (%)	100.0	103.5	103.0	96.0

Remarks

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LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/58909-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: Lot 7-8
Location: Nambour	Internal Test Request: 3740/T/44842
Supplied To: n/a	Client Reference/s: Level 1 Supervision & Sewer Testing
Area Description:	Report Date / Page: 21/03/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/237365	3740/S/237366	3740/S/237367	3740/S/237368
ID / Client ID	-	-	-	-
Lot Number	Lot 7-8	Lot 7-8	Lot 7-8	Lot 7-8
Date / Time Tested	7/03/2023	7/03/2023	7/03/2023	7/03/2023
Material Source	Insitu	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard	Standard
Grid	56	56	56	56
Easting (m)	494213	494207	494203	494215
Northing (m)	7055958	7055961	7055954	7055950
RL (m)	73.700	73.900	73.600	73.400
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	3740/S/237365	3740/S/237366	3740/S/237367	3740/S/237368
Sample Description	Insitu	Insitu	Insitu	Insitu
Moisture Test Results:				
Field Moisture Content (%)	11.1	17.0	20.3	21.3
Adjusted / Moist. Variation (%)	2.5	1.0	1.0	0.5
Optimum Moisture Content (%)	13.5	18.0	21.0	22.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	81.0	95.5	96.0	97.0
Density Test Results:				
Field Wet Density (t/m ³)	2.11	2.10	1.97	2.13
Adj/Peak Conv Wet Density (t/m ³)	2.14	2.10	1.96	2.10
Density Ratio Required (%)	-	-	-	-
Hilf Density Ratio (%)	98.5	100.0	100.5	101.5

Remarks

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 Accreditation Number: 1986 Corporate Site Number: 3740	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow Client Address: Level 1, 85 Brandl Street, Eight Mile Plains Project: 41 Glenbrook Drive Location: Nambour Supplied To: n/a Area Description:	Report Number: 3740/R/58911-1 Project Number: 3740/P/2575 Lot Number: Internal Test Request: 3740/T/44886 Client Reference/s: Level 1 Supervision 9/03/2023 Report Date / Page: 21/03/2023 Page 1 of 1
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/237505		
ID / Client ID	-		
Lot Number	-		
Date / Time Tested	9/03/2023 10:00		
Material Source	Insitu		
Material Type	FILL		
Sampling Method	AS1289.1.2.1 CI 6.4b		
Depths: Test / Nom / Actual (mm)	300 / - / -		
Standard or Modified	Standard		
Grid	56		
Easting (m)	494266		
Northing (m)	7055817		
RL (m)	85.800		
Test Fraction (mm)	< 19.0 mm		
Sample Oversize (%)	0		
Compaction Sample Number	3740/S/237505		
Sample Description	Insitu		
Moisture Test Results:			
Field Moisture Content (%)	12.3		
Adjusted / Moist. Variation (%)	1.0		
Optimum Moisture Content (%)	13.0		
Moisture Variation from OMC	(Drier than OMC)		
Moisture Ratio (%)	94.0		
Density Test Results:			
Field Wet Density (t/m ³)	2.16		
Adj/Peak Conv Wet Density (t/m ³)	2.16		
Density Ratio Required (%)	-		
Hilf Density Ratio (%)	100.0		

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	
Accreditation Number: 1986 Corporate Site Number: 3740	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/58912-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number:
Location: Nambour	Internal Test Request: 3740/T/44958
Supplied To: n/a	Client Reference/s: Level 1 Supervision 15/03/2023
Area Description:	Report Date / Page: 21/03/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/237756	3740/S/237757	3740/S/237758
ID / Client ID	-	-	-
Lot Number	-	-	-
Date / Time Tested	15/03/2023 12:00	15/03/2023 12:00	15/03/2023 12:00
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494304	494316	494315
Northing (m)	7055751	7055760	7055772
RL (m)	87.170	86.300	86.700
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/237756	3740/S/237757	3740/S/237758
Sample Description	Insitu	Insitu	Insitu
Moisture Test Results:			
Field Moisture Content (%)	7.8	7.7	9.5
Adjusted / Moist. Variation (%)	2.5	2.5	2.5
Optimum Moisture Content (%)	10.5	10.5	12.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	75.0	74.0	79.0
Density Test Results:			
Field Wet Density (t/m ³)	2.24	2.22	2.24
Adj/Peak Conv Wet Density (t/m ³)	2.23	2.22	2.24
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	100.5	100.0	100.0

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



WET DENSITY RATIO REPORT

Client: CCA Winslow	Report Number: 3740/R/59388-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: 46,47,48
Location: Nambour	Internal Test Request: 3740/T/45196
Supplied To: n/a	Client Reference/s: Level 1 Supervision
Area Description:	Report Date / Page: 19/04/2023 Page 1 of 1

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/238747	3740/S/238748	3740/S/238749
ID / Client ID	-	-	-
Lot Number	46,47,48	46,47,48	46,47,48
Date / Time Tested	5/04/2023 09:00	5/04/2023 11:00	5/04/2023 08:00
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494321	494328	494298
Northing (m)	7055776	7055754	7055772
RL (m)	87.890	87.520	88.001
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/238747	3740/S/238748	3740/S/238749
Sample Description	Black Clay	Brown Clay	Brown Clay
Moisture Test Results:			
Field Moisture Content (%)	14.0	14.1	21.2
Adjusted / Moist. Variation (%)	2.0	2.5	-1.5
Optimum Moisture Content (%)	16.5	17.0	19.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Wetter than OMC)
Moisture Ratio (%)	86.0	84.0	108.0
Density Test Results:			
Field Wet Density (t/m ³)	2.10	2.15	2.06
Adj/Peak Conv Wet Density (t/m ³)	2.12	2.14	2.09
Density Ratio Required (%)	98	98	98
Hilf Density Ratio (%)	99.0	100.0	98.5

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Justin Harrex Form ID: W5ASMRRRep Rev 2
Accreditation Number: 1986 Corporate Site Number: 3740	



WET DENSITY RATIO REPORT

Client: CCA Winslow	Report Number: 3740/R/59389-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: 47,48
Location: Nambour	Internal Test Request: 3740/T/45226
Supplied To: n/a	Client Reference/s: Level 1 Supervision+ CBR Sampling
Area Description:	Report Date / Page: 19/04/2023 Page 1 of 1

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/238885	3740/S/238886	3740/S/238887
ID / Client ID	-	-	-
Lot Number	47,48	47,48	47,48
Date / Time Tested	12/04/2023 11:00	12/04/2023 11:00	12/04/2023 11:00
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494317	494323	494331
Northing (m)	7055793	7055789	7055775
RL (m)	89.160	88.930	88.540
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/238885	3740/S/238886	3740/S/238887
Sample Description	Insitu	Insitu	Insitu
Moisture Test Results:			
Field Moisture Content (%)	9.7	11.5	10.7
Adjusted / Moist. Variation (%)	2.0	0.5	0.5
Optimum Moisture Content (%)	12.0	12.0	11.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	81.5	94.5	94.0
Density Test Results:			
Field Wet Density (t/m ³)	2.11	2.18	2.20
Adj/Peak Conv Wet Density (t/m ³)	2.08	2.14	2.15
Density Ratio Required (%)	100	100	100
Hilf Density Ratio (%)	101.5	101.5	102.5

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/59498-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: Lots 24,23,22
Location: Nambour	Internal Test Request: 3740/T/45122
Supplied To: n/a	Client Reference/s: Level 1 Supervision 29/03/2023
Area Description:	Report Date / Page: 27/04/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/238363	3740/S/238364	3740/S/238365	3740/S/238366
ID / Client ID	-	-	-	-
Lot Number	Lots 24,23,22	Lots 24,23,22	Lots 24,23,22	Lots 24,23,22
Date / Time Tested	29/03/2023 10:00	29/03/2023 10:00	29/03/2023 10:00	29/03/2023 10:00
Material Source	Insitu	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard	Standard
Grid	56	56	56	56
Easting (m)	494519	494533	494532	494527
Northing (m)	7055940	7055938	7055953	7055928
RL (m)	66.800	67.583	67.360	66.754
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	3740/S/238363	3740/S/238364	3740/S/238365	3740/S/238366
Sample Description	Sandy Gravely Clay/Grey	Sandy Gravely Clay/Brown	Sandy Gravely Clay/Brown	Sandy Gravely Clay/Brown
Moisture Test Results:				
Field Moisture Content (%)	17.3	17.8	18.9	15.1
Adjusted / Moist. Variation (%)	0.5	2.5	3.0	3.0
Optimum Moisture Content (%)	18.0	20.5	22.0	18.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	96.5	87.0	86.5	84.0
Density Test Results:				
Field Wet Density (t/m ³)	2.00	2.05	2.05	2.04
Adj/Peak Conv Wet Density (t/m ³)	1.98	2.04	2.05	2.04
Density Ratio Required (%)	-	-	-	-
Hilf Density Ratio (%)	101.0	100.5	100.0	100.0

Remarks

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	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4
Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/59499-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: 44,46
Location: Nambour	Internal Test Request: 3740/T/45166
Supplied To: n/a	Client Reference/s: Level 1 Supervision 03/04/2023
Area Description:	Report Date / Page: 27/04/2023 Page 1 of 3

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/238596	3740/S/238597	3740/S/238598	3740/S/238599
ID / Client ID	-	-	-	-
Lot Number	44,46	44,46	24,23,22	24,23,22
Date / Time Tested	3/04/2023 12:00	3/04/2023 12:00	3/04/2023 12:00	3/04/2023 12:00
Material Source	Insitu	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard	Standard
Grid	56	56	56	56
Easting (m)	494273	494287	494546	494528
Northing (m)	7055808	7055785	7055951	7055945
RL (m)	86.930	87.150	68.900	68.050
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	3740/S/238596	3740/S/238597	3740/S/238598	3740/S/238599
Sample Description	Insitu	Insitu	Insitu	Insitu
Moisture Test Results:				
Field Moisture Content (%)	20.1	13.5	13.3	13.0
Adjusted / Moist. Variation (%)	2.5	0.5	3.0	3.0
Optimum Moisture Content (%)	22.5	14.0	16.0	16.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	88.5	95.5	83.0	82.0
Density Test Results:				
Field Wet Density (t/m ³)	2.21	2.12	1.98	1.92
Adj/Peak Conv Wet Density (t/m ³)	2.21	2.08	1.94	1.90
Density Ratio Required (%)	-	-	-	-
Hilf Density Ratio (%)	100.0	101.5	102.0	100.5

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4
Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow Client Address: Level 1, 85 Brandl Street, Eight Mile Plains Project: 41 Glenbrook Drive Location: Nambour Supplied To: n/a Area Description:	Report Number: 3740/R/59499-1 Project Number: 3740/P/2575 Lot Number: 44,46 Internal Test Request: 3740/T/45166 Client Reference/s: Level 1 Supervision 03/04/2023 Report Date / Page: 27/04/2023 Page 2 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/238600		
ID / Client ID	-		
Lot Number	24,23,22		
Date / Time Tested	3/04/2023 12:00		
Material Source	Insitu		
Material Type	FILL		
Sampling Method	AS1289.1.2.1 CI 6.4b		
Depths: Test / Nom / Actual (mm)	300 / - / -		
Standard or Modified	Standard		
Grid	56		
Easting (m)	494512		
Northing (m)	7055949		
RL (m)	66.800		
Test Fraction (mm)	< 19.0 mm		
Sample Oversize (%)	9		
Compaction Sample Number	3740/S/238600		
Sample Description	Insitu		
Moisture Test Results:			
Field Moisture Content (%)	14.9		
Adjusted / Moist. Variation (%)	2.5		
Optimum Moisture Content (%)	17.5		
Moisture Variation from OMC	(Drier than OMC)		
Moisture Ratio (%)	85.0		
Density Test Results:			
Field Wet Density (t/m ³)	2.24		
Adj/Peak Conv Wet Density (t/m ³)	2.20		
Density Ratio Required (%)	-		
Hilf Density Ratio (%)	102.0		

Remarks

<div style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</div>  <p>Accreditation Number: 1986 Corporate Site Number: 3740</p>	<div style="text-align: center;">  Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4 </div>
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LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/59500-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: 48 23 22
Location: Nambour	Internal Test Request: 3740/T/45217
Supplied To: n/a	Client Reference/s: Level 1 Supervision
Area Description:	Report Date / Page: 27/04/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/238836	3740/S/238837	3740/S/238838	3740/S/238839
ID / Client ID	-	-	-	-
Lot Number	48 23 22	48 23 22	48 23 22	48 23 22
Date / Time Tested	11/04/2023 11:00	11/04/2023 11:00	11/04/2023 11:00	11/04/2023 11:00
Material Source	Insitu	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard	Standard
Grid	56	56	56	56
Easting (m)	494534	494507	494323	494323
Northing (m)	7055947	7055954	7055766	7055757
RL (m)	68.360	66.990	88.890	89.080
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	8	44	9	13
Compaction Sample Number	3740/S/238836	3740/S/238837	3740/S/238838	3740/S/238839
Sample Description	FILL	Fill	FILL	FILL
Moisture Test Results:				
Field Moisture Content (%)	14.6	11.2	6.3	13.7
Adjusted / Moist. Variation (%)	4.0	3.0	4.0	3.5
Optimum Moisture Content (%)	19.0	15.5	10.5	18.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	76.5	72.0	60.5	75.5
Density Test Results:				
Field Wet Density (t/m ³)	1.97	1.97	2.24	2.22
Adj/Peak Conv Wet Density (t/m ³)	1.96	2.07	2.14	2.14
Density Ratio Required (%)	-	-	-	-
Hilf Density Ratio (%)	100.0	95.0	105.0	103.5

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4
Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow Client Address: Level 1, 85 Brandl Street, Eight Mile Plains Project: 41 Glenbrook Drive Location: Nambour Supplied To: n/a Area Description:	Report Number: 3740/R/59501-1 Project Number: 3740/P/2575 Lot Number: 24,23,22 Internal Test Request: 3740/T/45181 Client Reference/s: Level 1 Supervision 04/04/2023 Report Date / Page: 27/04/2023 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/238673	3740/S/238674	3740/S/238675
ID / Client ID	-	-	-
Lot Number	24,23,22	24,23,22	24,23,22
Date / Time Tested	4/04/2023 01:01	4/04/2023 01:01	4/04/2023 01:01
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494522	494518	494496
Northing (m)	7055945	7055940	7055941
RL (m)	66.100	67.200	68.050
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	4	4	2
Compaction Sample Number	3740/S/238673	3740/S/238674	3740/S/238675
Sample Description	Fill	Fill	Fill
Moisture Test Results:			
Field Moisture Content (%)	25.5	14.9	0.9
Adjusted / Moist. Variation (%)	0.5	2.0	2.5
Optimum Moisture Content (%)	26.0	17.0	3.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	98.5	87.5	25.5
Density Test Results:			
Field Wet Density (t/m ³)	2.16	2.20	2.14
Adj/Peak Conv Wet Density (t/m ³)	2.13	2.23	2.17
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	101.0	98.5	98.5

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4
Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/59502-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: 44,46
Location: Nambour	Internal Test Request: 3740/T/45246
Supplied To: n/a	Client Reference/s: Level 1 Supervision
Area Description:	Report Date / Page: 27/04/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/238942	3740/S/238943	3740/S/238944	3740/S/238945
ID / Client ID	-	-	-	-
Lot Number	44,46	44,46	44,46	44,46
Date / Time Tested	14/04/2023 12:00	14/04/2023 12:00	14/04/2023 12:00	14/04/2023 12:00
Material Source	Insitu	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard	Standard
Grid	56	56	56	56
Easting (m)	494335	494321	494317	494320
Northing (m)	7055756	7055757	7055765	7055772
RL (m)	89.910	89.480	89.290	89.610
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	5	1	3	4
Compaction Sample Number	3740/S/238942	3740/S/238943	3740/S/238944	3740/S/238945
Sample Description	FILL	Insitu	FILL	Insitu
Moisture Test Results:				
Field Moisture Content (%)	10.6	10.1	9.6	10.2
Adjusted / Moist. Variation (%)	4.5	4.5	4.0	4.5
Optimum Moisture Content (%)	15.5	14.5	14.0	14.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	68.0	69.0	69.0	69.5
Density Test Results:				
Field Wet Density (t/m ³)	2.34	2.12	2.20	2.07
Adj/Peak Conv Wet Density (t/m ³)	2.29	2.12	2.18	2.05
Density Ratio Required (%)	-	-	-	-
Hilf Density Ratio (%)	102.0	100.5	101.0	101.0

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/59568-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: 46,47,48
Location: Nambour	Internal Test Request: 3740/T/45268
Supplied To: n/a	Client Reference/s: Level 1 Supervision - 19/04/2023
Area Description:	Report Date / Page: 2/05/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/239191	3740/S/239192	3740/S/239193
ID / Client ID	-	-	-
Lot Number	46,47,48	46,47,48	46,47,48
Date / Time Tested	19/04/2023 11:00	19/04/2023 11:00	19/04/2023 11:00
Material Source	Insitu	Insitu	Insitu
Material Type	-	-	-
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494325	494330	494317
Northing (m)	7055790	7055789	7055770
RL (m)	90.020	89.850	90.160
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	9	6	8
Compaction Sample Number	3740/S/239191	3740/S/239192	3740/S/239193
Sample Description	Fill	Fill	Fill
Moisture Test Results:			
Field Moisture Content (%)	9.1	8.2	8.6
Adjusted / Moist. Variation (%)	4.0	4.0	4.0
Optimum Moisture Content (%)	13.5	12.5	13.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	68.0	64.5	67.0
Density Test Results:			
Field Wet Density (t/m ³)	2.33	2.36	2.22
Adj/Peak Conv Wet Density (t/m ³)	2.30	2.28	2.22
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	101.0	103.5	100.0

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/59569-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: 44,46
Location: Nambour	Internal Test Request: 3740/T/45300
Supplied To: n/a	Client Reference/s: Level 1 Supervision 21/04/2023
Area Description:	Report Date / Page: 2/05/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/239194	3740/S/239195	3740/S/239196
ID / Client ID	-	-	-
Lot Number	44,46	44,46	44,46
Date / Time Tested	21/04/2023 11:00	21/04/2023 11:00	21/04/2023 11:00
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494316	494288	494277
Northing (m)	7055805	7055805	7055827
RL (m)	89.600	89.750	89.780
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	7	5	5
Compaction Sample Number	3740/S/239194	3740/S/239195	3740/S/239196
Sample Description	FILL	FILL	FILL
Moisture Test Results:			
Field Moisture Content (%)	8.4	8.3	8.7
Adjusted / Moist. Variation (%)	4.0	4.0	4.0
Optimum Moisture Content (%)	12.5	12.5	13.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	67.0	67.0	67.5
Density Test Results:			
Field Wet Density (t/m ³)	2.35	2.28	2.35
Adj/Peak Conv Wet Density (t/m ³)	2.23	2.20	2.22
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	105.0	104.0	106.0

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/59743-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: Lots 45,46,47
Location: Nambour	Internal Test Request: 3740/T/45447
Supplied To: n/a	Client Reference/s: Level 1 Supervision 11/05/2023
Area Description: Retests of failed layer of 09/05/2023	Report Date / Page: 17/05/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/239809	3740/S/239810	3740/S/239811	3740/S/239812
ID / Client ID	-	-	-	-
Lot Number	Lots 45,46,47	Lots 45,46,47	Lots 45,46,47	Lots 45,46,47
Date / Time Tested	11/05/2023 12:00	11/05/2023 12:00	11/05/2023 12:00	11/05/2023 12:00
Material Source	Insitu	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard	Standard
Grid	56	56	56	56
Easting (m)	494312	494321	494322	494320
Northing (m)	7055792	7055786	7055802	7055803
RL (m)	91.500	91.700	91.580	91.878
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	3740/S/239809	3740/S/239810	3740/S/239811	3740/S/239812
Sample Description	Fill	Fill	Fill	Fill
Moisture Test Results:				
Field Moisture Content (%)	17.9	18.8	23.1	20.5
Adjusted / Moist. Variation (%)	0.0	0.0	0.0	2.5
Optimum Moisture Content (%)	18.0	19.0	23.0	23.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Wetter than OMC)	(Drier than OMC)
Moisture Ratio (%)	99.5	99.0	100.5	89.0
Density Test Results:				
Field Wet Density (t/m ³)	2.13	2.10	2.17	2.20
Adj/Peak Conv Wet Density (t/m ³)	2.12	2.10	2.08	2.06
Density Ratio Required (%)	-	-	-	-
Hilf Density Ratio (%)	100.5	100.5	104.5	107.0

Remarks

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LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/59990-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: Lots 45,46,47
Location: Nambour	Internal Test Request: 3740/T/45582
Supplied To: n/a	Client Reference/s: Level 1 Supervision 26/05/2023
Area Description:	Report Date / Page: 6/06/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/240349	3740/S/240350	3740/S/240351
ID / Client ID	-	-	-
Lot Number	Lots 45,46,47	Lots 45,46,47	Lots 45,46,47
Date / Time Tested	26/05/2023 01:00	26/05/2023 01:00	26/05/2023 01:00
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494348	494345	494337
Northing (m)	7055773	7055771	7055785
RL (m)	93.051	93.131	93.002
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/240349	3740/S/240350	3740/S/240351
Sample Description	Sandy Clay/Brown	Sandy Clay/Brown	Sandy Clay/Brown
Moisture Test Results:			
Field Moisture Content (%)	12.9	13.1	11.9
Adjusted / Moist. Variation (%)	0.5	2.0	0.5
Optimum Moisture Content (%)	13.5	15.5	12.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	96.5	85.0	96.5
Density Test Results:			
Field Wet Density (t/m ³)	2.30	2.23	2.19
Adj/Peak Conv Wet Density (t/m ³)	2.28	2.21	2.18
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	101.0	100.5	100.5

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/60286-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: Stage 4
Location: Nambour	Internal Test Request: 3740/T/45802
Supplied To: n/a	Client Reference/s: Level 1 Supervision 19.6.23
Area Description:	Report Date / Page: 28/06/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/241286	3740/S/241287	3740/S/241288
ID / Client ID	-	-	-
Lot Number	Stage 4	Stage 4	Stage 4
Date / Time Tested	19/06/2023 11:00	19/06/2023 11:00	19/06/2023 11:00
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494354	494341	494343
Northing (m)	7055765	7055777	7055787
RL (m)	93.050	94.040	93.860
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	3	2	10
Compaction Sample Number	3740/S/241286	3740/S/241287	3740/S/241288
Sample Description	Insitu	Insitu	Insitu
Moisture Test Results:			
Field Moisture Content (%)	29.6	32.1	25.0
Adjusted / Moist. Variation (%)	0.0	2.0	2.0
Optimum Moisture Content (%)	29.5	34.5	27.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	99.5	93.0	91.0
Density Test Results:			
Field Wet Density (t/m ³)	2.11	2.03	1.97
Adj/Peak Conv Wet Density (t/m ³)	1.97	1.95	1.97
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	107.0	104.0	100.0

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/60880-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: Stage 4
Location: Nambour	Internal Test Request: 3740/T/46236
Component: Stage 4 House lots	Client Reference/s: Level 1 Supervision 31/07/2023
Area Description:	Report Date / Page: 4/08/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/243044	3740/S/243045	3740/S/243046
ID / Client ID	-	-	-
Lot Number	Stage 4	Stage 4	Stage 4
Date / Time Tested	31/07/2023	31/07/2023	31/07/2023
Material Source	Onsite	Onsite	Onsite
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / -	300 / 300 / -	300 / 300 / -
Standard or Modified	Standard	Standard	Standard
Grid	Lot 46	Lot 47	Lot 48
Easting (m)	494313.6	491321.7	494346.1
Northing (m)	7055801.1	7055794.6	7055797.1
RL (m)	92.12	93.71	96.01
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/243044	3740/S/243045	3740/S/243046
Sample Description	Sandy Gravely Clay	Sandy Gravely Clay	Sandy Gravely Clay
Moisture Test Results:			
Field Moisture Content (%)	17.7	16.7	15.2
Adjusted / Moist. Variation (%)	2.5	2.5	3.0
Optimum Moisture Content (%)	20.0	19.5	18.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	88.0	86.0	83.5
Density Test Results:			
Field Wet Density (t/m ³)	2.02	1.98	1.98
Adj/Peak Conv Wet Density (t/m ³)	1.94	1.95	1.94
Density Ratio Required (%)	95	95	95
Hilf Density Ratio (%)	103.5	102.0	102.0

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/60287-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: Stage 4
Location: Nambour	Internal Test Request: 3740/T/45655
Supplied To: n/a	Client Reference/s: Level 1 Supervision 02/06/2023
Area Description:	Report Date / Page: 28/06/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/240674	3740/S/240675	3740/S/240676
ID / Client ID	-	-	-
Lot Number	Stage 4	Stage 4	Stage 4
Date / Time Tested	2/06/2023	2/06/2023	2/06/2023
Material Source	Onsite	Onsite	Onsite
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56J	56J	56J
Easting (m)	494336	494333	494323
Northing (m)	7055788	7055781	7055788
RL (m)	93.08	92.9	92.78
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/240674	3740/S/240675	3740/S/240676
Sample Description	Clay with sand	Clay with sand	Clay with sand
Moisture Test Results:			
Field Moisture Content (%)	13.5	14.4	13.9
Adjusted / Moist. Variation (%)	2.0	2.0	2.0
Optimum Moisture Content (%)	15.5	16.5	16.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	87.0	86.0	87.0
Density Test Results:			
Field Wet Density (t/m ³)	2.14	2.13	2.18
Adj/Peak Conv Wet Density (t/m ³)	2.05	2.06	2.06
Density Ratio Required (%)	-	-	-
Hilf Density Ratio (%)	104.5	103.5	106.0

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/61335-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: Stage 4
Location: Nambour	Internal Test Request: 3740/T/45751
Supplied To: n/a	Client Reference/s: Level 1 Testing 14.6.23
Area Description:	Report Date / Page: 4/09/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/241102	3740/S/241103	3740/S/241104
ID / Client ID	-	-	-
Lot Number	Stage 4	Stage 4	Stage 4
Date / Time Tested	14/06/2023 11:00	14/06/2023 11:00	14/06/2023 11:00
Material Source	Insitu	Insitu	Insitu
Material Type	FILL	FILL	FILL
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / - / -	300 / - / -	300 / - / -
Standard or Modified	Standard	Standard	Standard
Grid	56	56	56
Easting (m)	494323	494341	494354
Northing (m)	7055784	7055780	7055762
RL (m)	92.280	93.490	93.610
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	3740/S/241102	3740/S/241103	3740/S/241104
Sample Description	Insitu	Insitu	Insitu
Moisture Test Results:			
Field Moisture Content (%)	22.4	24.5	17.7
Adjusted / Moist. Variation (%)	0.5	0.5	0.5
Optimum Moisture Content (%)	23.0	25.0	18.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	98.0	98.0	96.0
Density Test Results:			
Field Wet Density (t/m ³)	2.02	1.94	1.99
Adj/Peak Conv Wet Density (t/m ³)	2.02	1.95	2.01
Density Ratio Required (%)	95	95	95
Hilf Density Ratio (%)	100.0	99.5	99.0

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow	Report Number: 3740/R/61097-1
Client Address: Level 1, 85 Brandl Street, Eight Mile Plains	Project Number: 3740/P/2575
Project: 41 Glenbrook Drive	Lot Number: 47,46,45
Location: Nambour	Internal Test Request: 3740/T/45410
Supplied To: n/a	Client Reference/s: Level 1 Supervision 08/05/2023
Area Description:	Report Date / Page: 21/08/2023 Page 1 of 1

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/239646		
ID / Client ID	-		
Lot Number	47,46,45		
Date / Time Tested	8/05/2023 01:00		
Material Source	Insitu		
Material Type	FILL		
Sampling Method	AS1289.1.2.1 CI 6.4b		
Depths: Test / Nom / Actual (mm)	300 / - / -		
Standard or Modified	Standard		
Grid	56		
Easting (m)	494309		
Northing (m)	7055807		
RL (m)	91.630		
Test Fraction (mm)	< 19.0 mm		
Sample Oversize (%)	19		
Compaction Sample Number	3740/S/239646		
Sample Description	Fill		
Moisture Test Results:			
Field Moisture Content (%)	8.8		
Adjusted / Moist. Variation (%)	3.5		
Optimum Moisture Content (%)	13.5		
Moisture Variation from OMC	(Drier than OMC)		
Moisture Ratio (%)	66.0		
Density Test Results:			
Field Wet Density (t/m ³)	2.19		
Adj/Peak Conv Wet Density (t/m ³)	2.19		
Density Ratio Required (%)	-		
Hilf Density Ratio (%)	100.0		

Remarks

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Accreditation Number: 1986 Corporate Site Number: 3740	Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4



LOT REPORT - WET DENSITY RATIO

Client: CCA Winslow Client Address: Level 1, 85 Brandl Street, Eight Mile Plains Project: 41 Glenbrook Drive Location: Nambour Supplied To: n/a Area Description:	Report Number: 3740/R/61098-1 Project Number: 3740/P/2575 Lot Number: 45,46,47 Internal Test Request: 3740/T/45417 Client Reference/s: Leve 1 Supervision 09/05/2023 Report Date / Page: 21/08/2023 Page 1 of 1
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	3740/S/239678		
ID / Client ID	-		
Lot Number	45,46,47		
Date / Time Tested	9/05/2023 01:00		
Material Source	Insitu		
Material Type	FILL		
Sampling Method	AS1289.1.2.1 CI 6.4b		
Depths: Test / Nom / Actual (mm)	300 / - / -		
Standard or Modified	Standard		
Grid	56		
Easting (m)	494341		
Northing (m)	7055776		
RL (m)	91.850		
Test Fraction (mm)	< 19.0 mm		
Sample Oversize (%)	15		
Compaction Sample Number	3740/S/239678		
Sample Description	Fill		
Moisture Test Results:			
Field Moisture Content (%)	8.1		
Adjusted / Moist. Variation (%)	4.0		
Optimum Moisture Content (%)	12.5		
Moisture Variation from OMC	(Drier than OMC)		
Moisture Ratio (%)	65.0		
Density Test Results:			
Field Wet Density (t/m ³)	2.15		
Adj/Peak Conv Wet Density (t/m ³)	2.21		
Density Ratio Required (%)	-		
Hilf Density Ratio (%)	97.0		

Remarks

<div style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</div>  <p>Accreditation Number: 1986 Corporate Site Number: 3740</p>	<div style="text-align: center;">  Approved Signatory: Thomas Hewitt Form ID: W5ASMRRepSum Rev 4 </div>
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